

FIG. 1

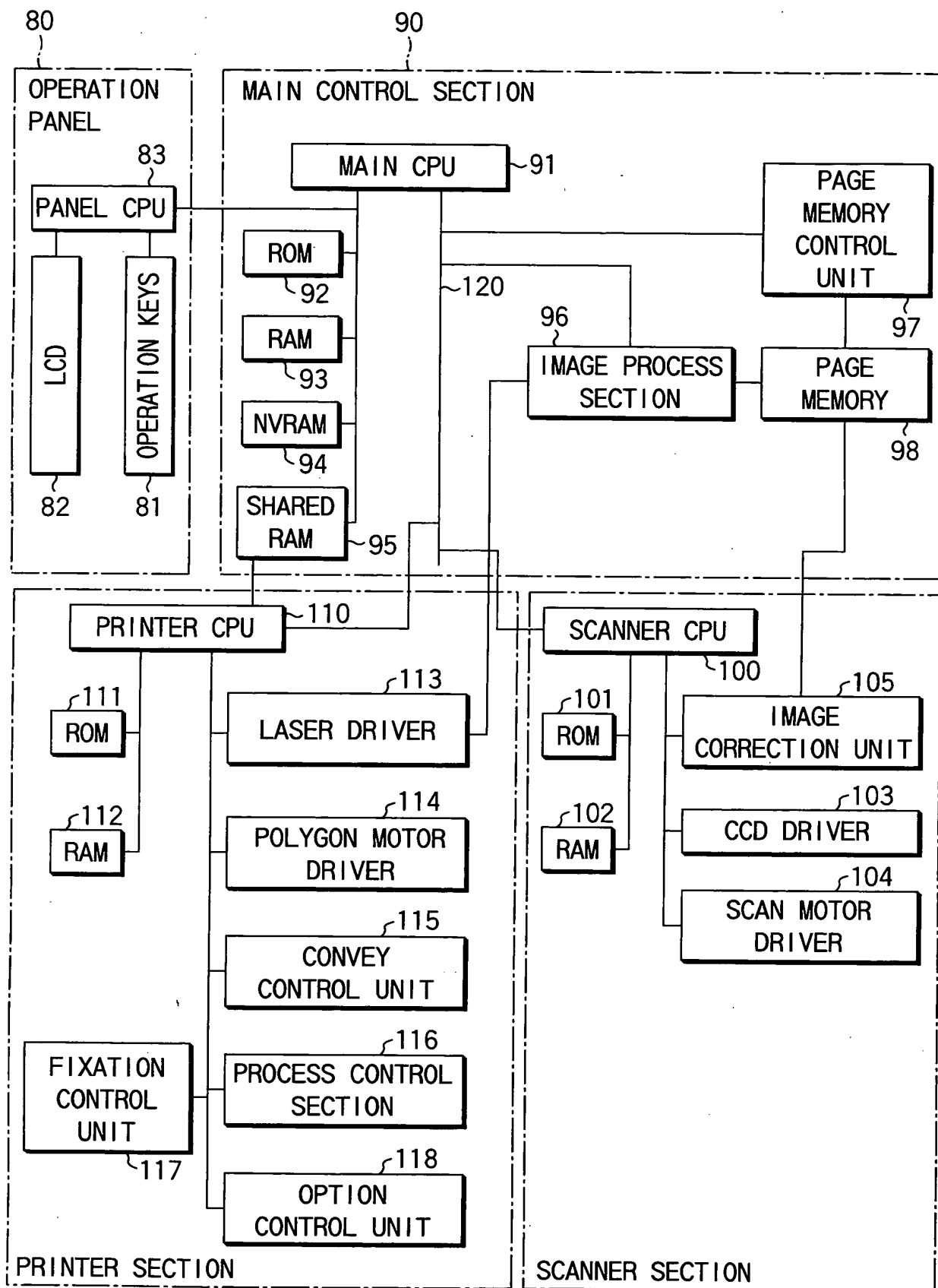


FIG. 2



FIG.3

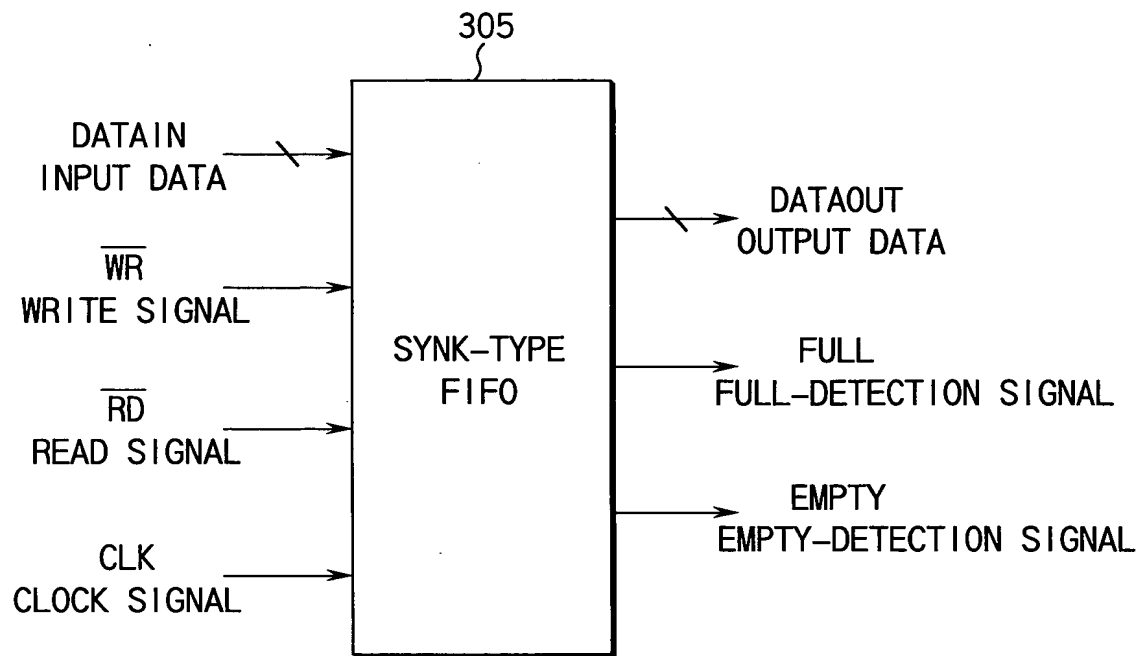


FIG.5

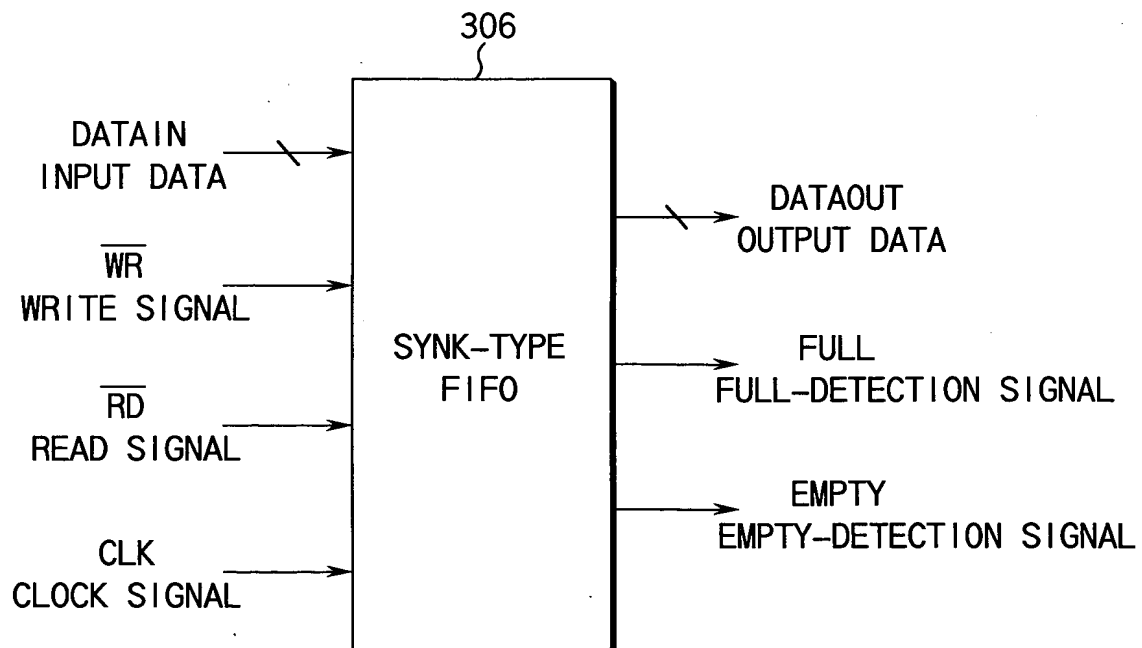
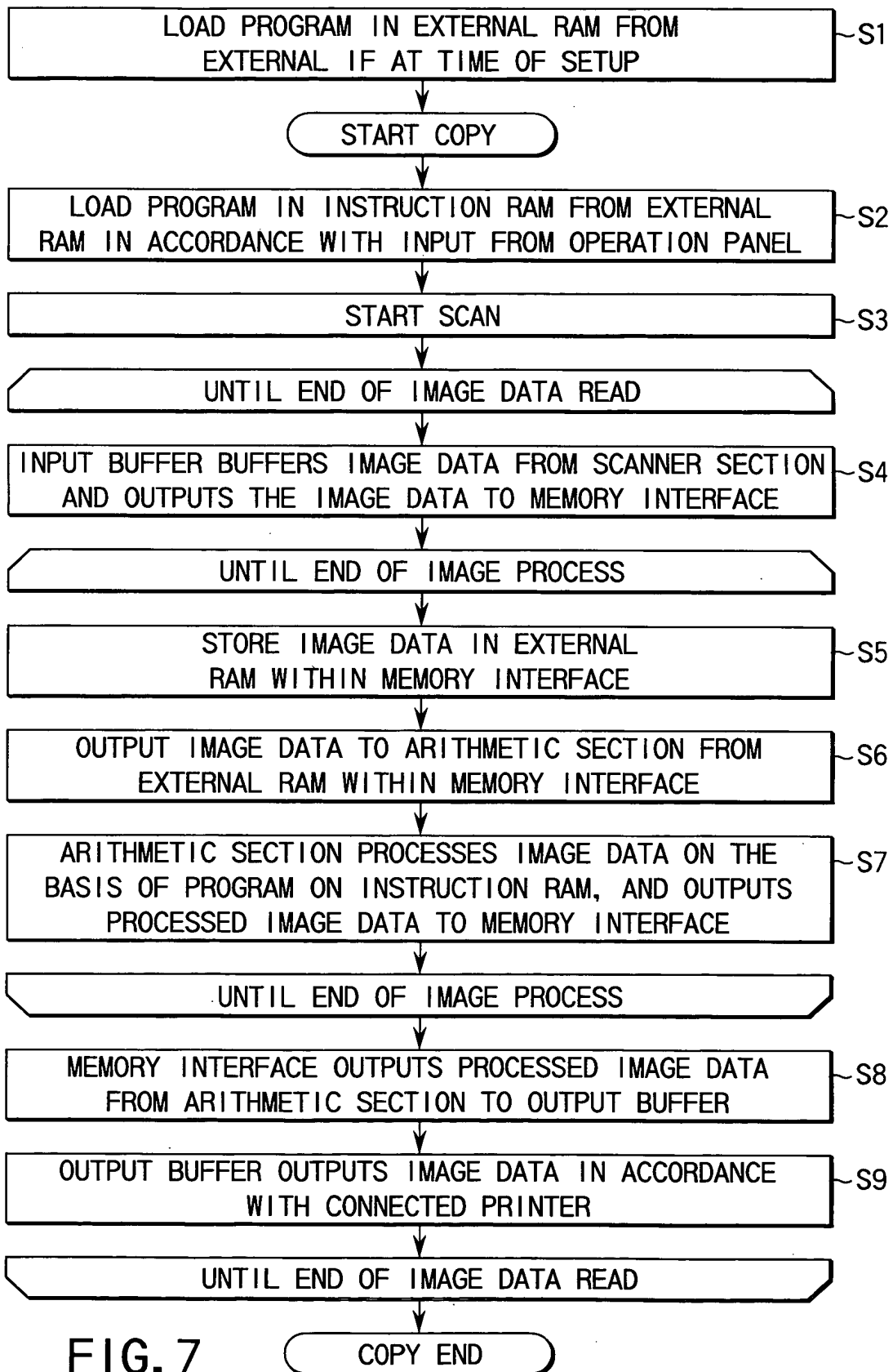


FIG.6



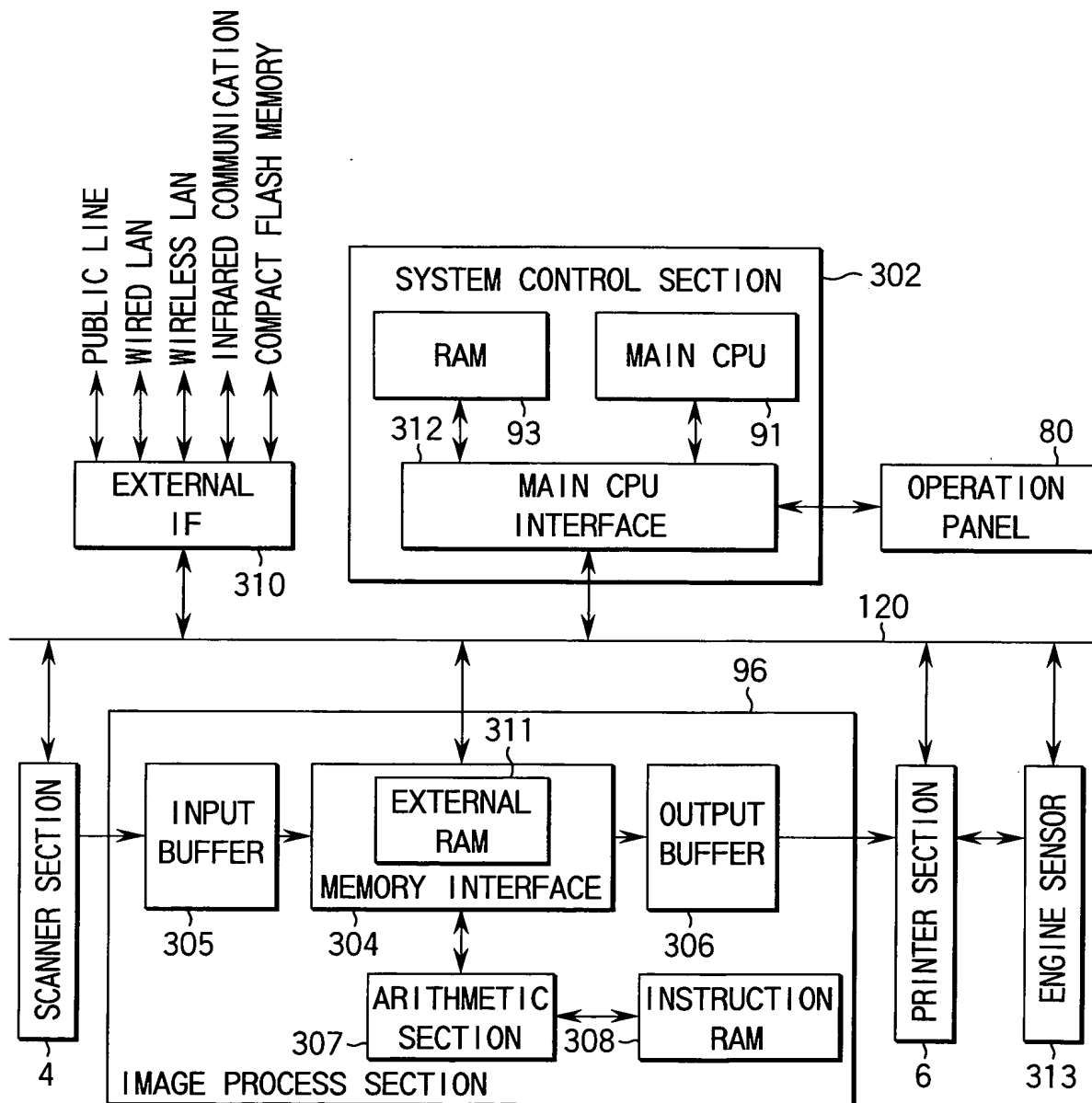


FIG.8

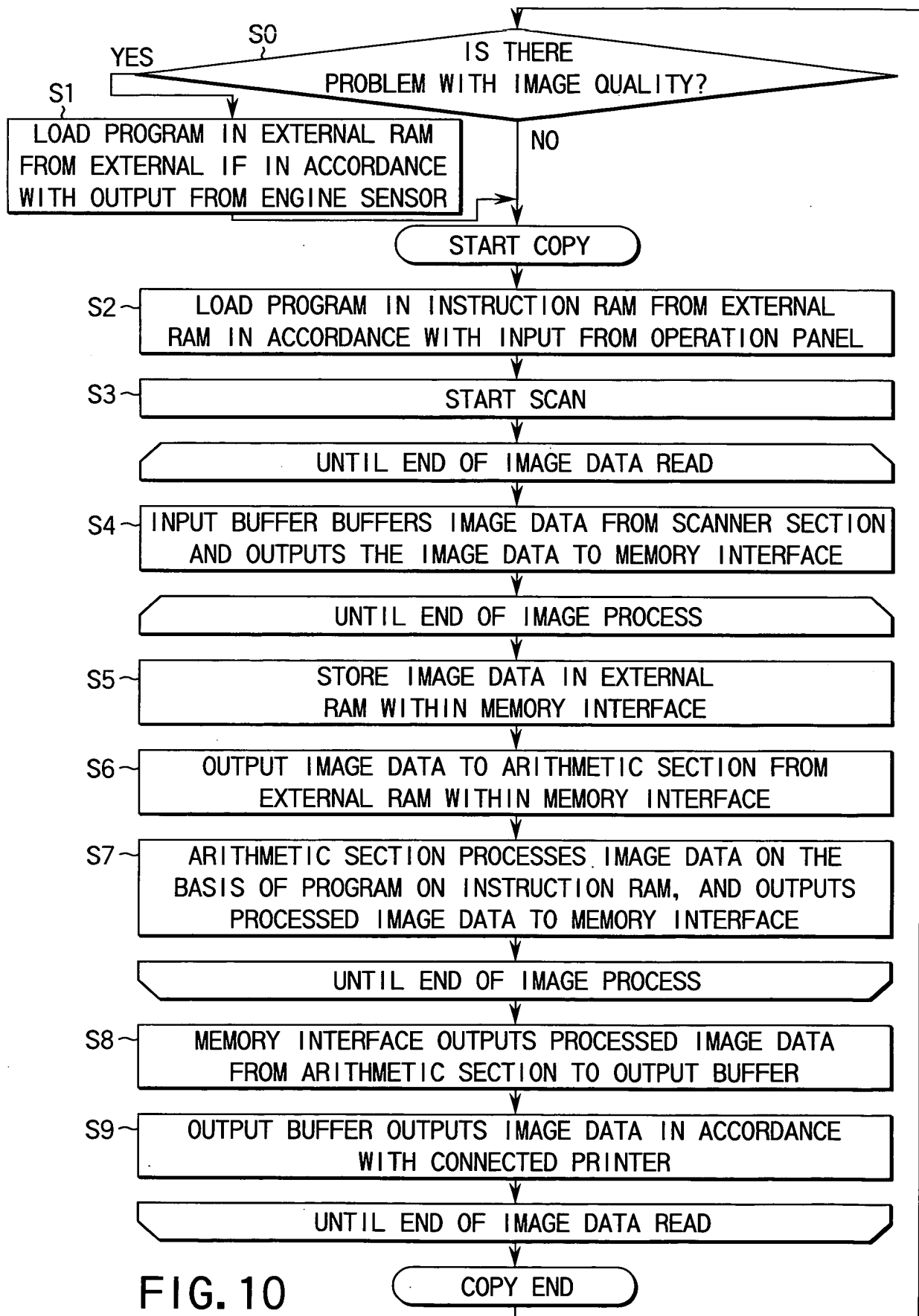


FIG. 10

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graph TD
    START([START]) --> S2[LOAD PROGRAM IN INSTRUCTION RAM FROM EXTERNAL RAM IN ACCORDANCE WITH INPUT FROM OPERATION PANEL]
    S2 --> S3[START SCAN]
    S3 --> S4[UNTIL END OF IMAGE DATA READ]
    S4 --> S5[INPUT BUFFER BUFFERS IMAGE DATA FROM SCANNER SECTION AND OUTPUTS THE IMAGE DATA TO MEMORY INTERFACE]
    S5 --> S6[UNTIL END OF IMAGE PROCESS]
    S6 --> S7[STORE IMAGE DATA IN EXTERNAL RAM WITHIN MEMORY INTERFACE]
    S7 --> S8[OUTPUT IMAGE DATA TO ARITHMETIC SECTION FROM EXTERNAL RAM WITHIN MEMORY INTERFACE]
    S8 --> S9[ARITHMETIC SECTION PROCESSES IMAGE DATA ON THE BASIS OF PROGRAM ON INSTRUCTION RAM, AND OUTPUTS PROCESSED IMAGE DATA TO MEMORY INTERFACE]
    S9 --> S10[UNTIL END OF IMAGE PROCESS]
    S10 --> S11[MEMORY INTERFACE OUTPUTS PROCESSED IMAGE DATA FROM ARITHMETIC SECTION TO OUTPUT BUFFER]
    S11 --> S12[OUTPUT BUFFER OUTPUTS IMAGE DATA IN ACCORDANCE WITH CONNECTED PRINTER]
    S12 --> S13[UNTIL END OF IMAGE DATA READ]
    S13 --> END([END])

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FIG. 11

FIG. 11

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graph TD
    START([START]) --> S11[LOAD IMAGE CHARACTERISTIC EXTRACT PROGRAM FROM  
EXTERNAL RAM INTO INSTRUCTION RAM]
    S11 --> S12[START SCAN]
    S12 --> S13[/UNTIL END OF CHARACTERISTIC AMOUNT EXTRACTION/]
    S13 --> S14[INPUT BUFFER BUFFERS IMAGE DATA FROM SCANNER SECTION  
AND OUTPUTS THE IMAGE DATA TO MEMORY INTERFACE]
    S14 --> S15[STORE IMAGE DATA IN EXTERNAL  
RAM WITHIN MEMORY INTERFACE]
    S15 --> S16[OUTPUT IMAGE DATA TO ARITHMETIC SECTION FROM  
EXTERNAL RAM WITHIN MEMORY INTERFACE]
    S16 --> S17[ARITHMETIC SECTION CALCULATES IMAGE  
CHARACTERISTIC AMOUNT ON THE BASIS OF  
CHARACTERISTIC AMOUNT EXTRACT PROGRAM  
ON INSTRUCTION RAM]
    S17 --> S18[/UNTIL END OF IMAGE CHARACTERISTIC AMOUNT EXTRACTION/]
    S18 --> S19[SELECT IMAGE PROCESS PROGRAM TO BE USED, ON THE  
BASIS OF IMAGE CHARACTERISTIC AMOUNT, AND LOAD IT  
FROM EXTERNAL RAM INTO INSTRUCTION RAM]
    S19 --> 1((1))

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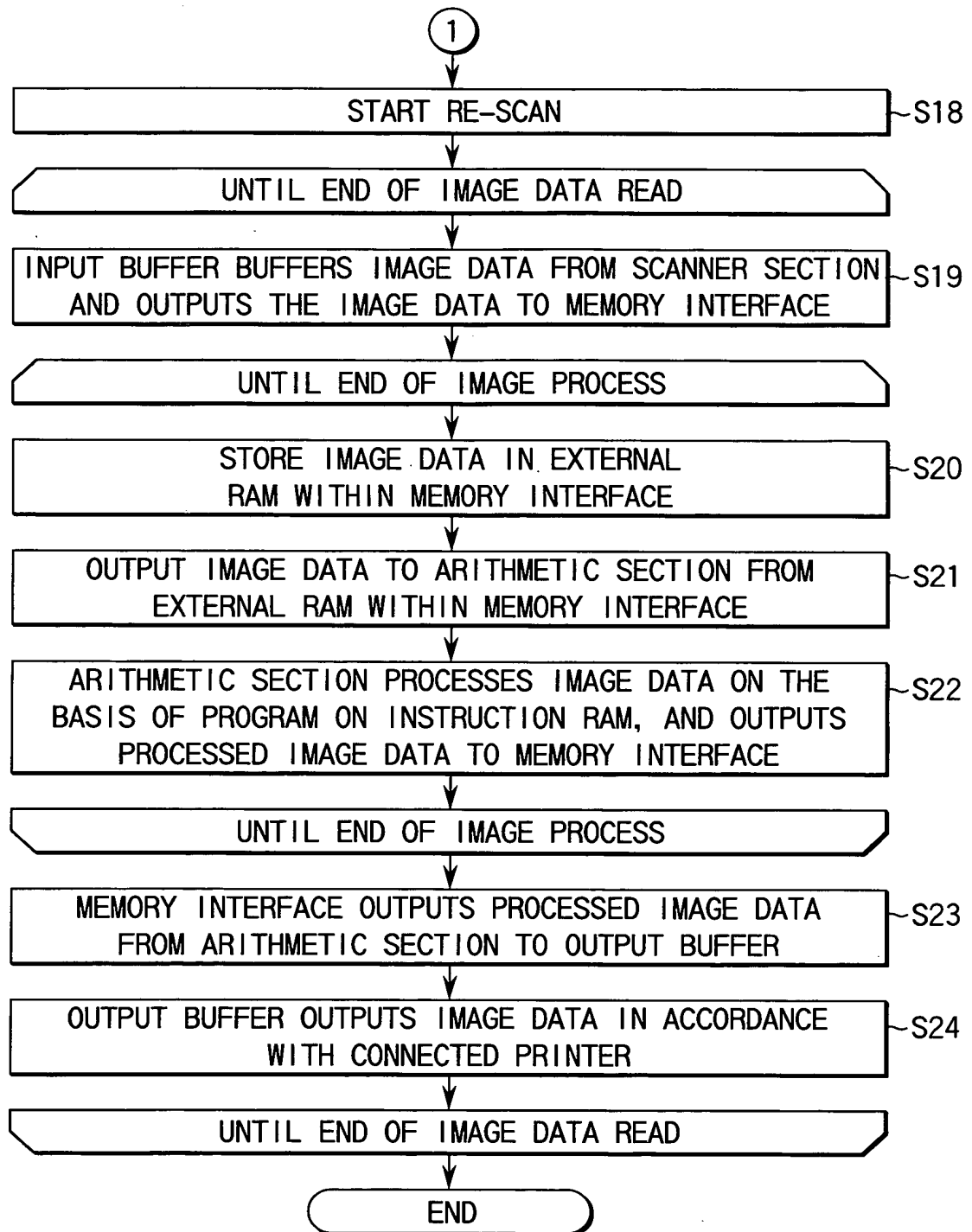


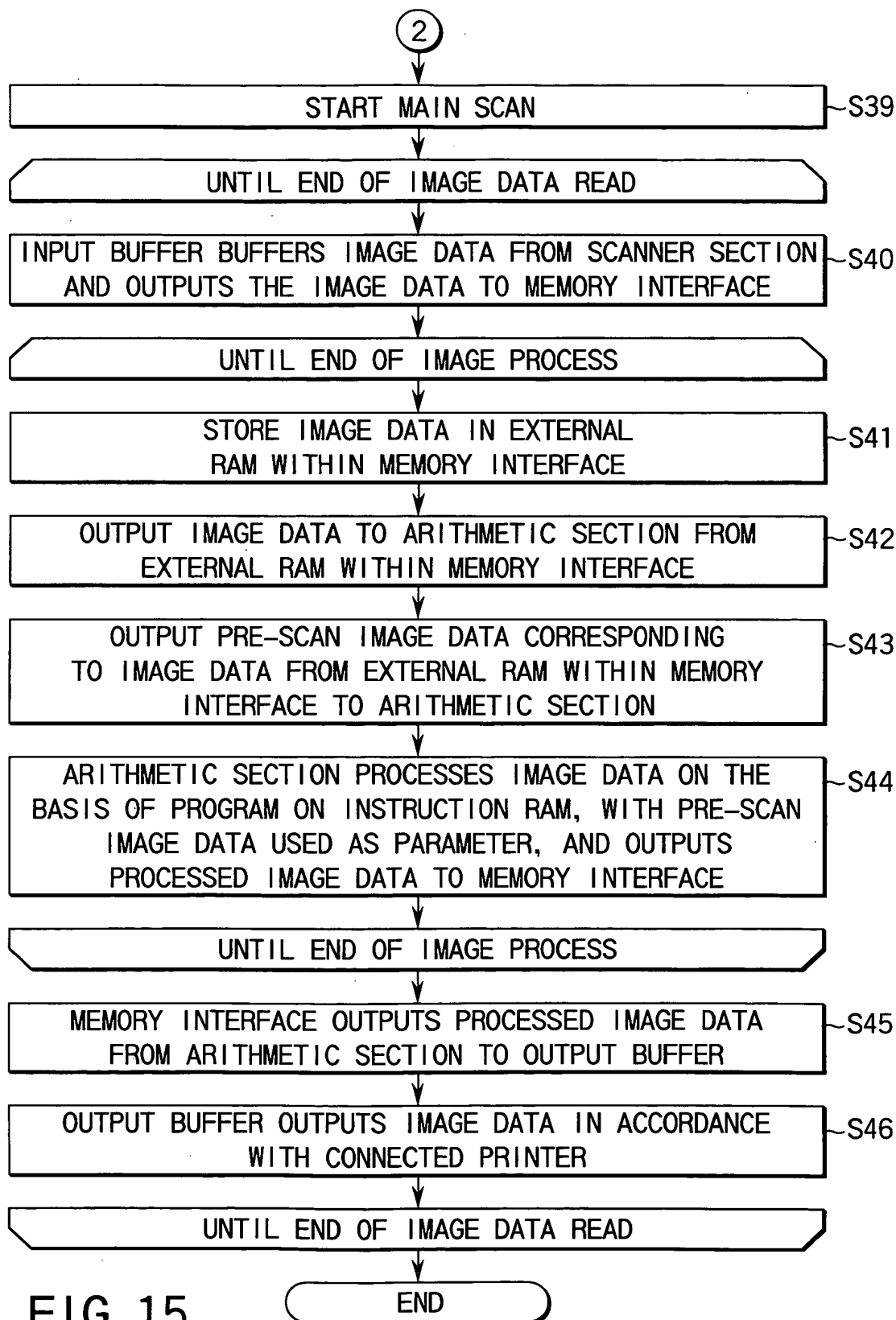
FIG. 13

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graph TD
    START([START]) --> S31[LOAD PRE-SCAN IMAGE PROCESS PROGRAM FROM  
EXTERNAL RAM INTO INSTRUCTION RAM]
    S31 --> S32[START PRE-SCAN]
    S32 --> S33[/UNTIL END OF PRE-SCAN/]
    S33 --> S34[INPUT BUFFER BUFFERS IMAGE DATA FROM SCANNER SECTION  
AND OUTPUTS THE IMAGE DATA TO MEMORY INTERFACE]
    S34 --> S35[STORE IMAGE DATA IN EXTERNAL  
RAM WITHIN MEMORY INTERFACE]
    S35 --> S36[OUTPUT IMAGE DATA TO ARITHMETIC SECTION FROM  
EXTERNAL RAM WITHIN MEMORY INTERFACE]
    S36 --> S37[ARITHMETIC SECTION CALCULATES PRE-SCAN  
IMAGE DATA ON THE BASIS OF PRE-SCAN  
PROGRAM ON INSTRUCTION RAM]
    S37 --> S38[STORE PRE-SCAN IMAGE DATA IN EXTERNAL  
RAM WITHIN MEMORY INTERFACE]
    S38 --> S39[/UNTIL END OF PRE-SCAN/]
    S39 --> S40[LOAD MAIN SCAN PROGRAM FROM EXTERNAL RAM  
INTO INSTRUCTION RAM]
    S40 --> 2((2))

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FIG. 14



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graph TD
    START([START]) --> S2[LOAD PROGRAM IN INSTRUCTION RAM FROM EXTERNAL RAM IN ACCORDANCE WITH OUTPUT FROM ENGINE SENSOR]
    S2 --> S3[START SCAN]
    S3 --> S4[UNTIL END OF IMAGE DATA READ]
    S4 --> S5[INPUT BUFFER BUFFERS IMAGE DATA FROM SCANNER SECTION AND OUTPUTS THE IMAGE DATA TO MEMORY INTERFACE]
    S5 --> S6[UNTIL END OF IMAGE PROCESS]
    S6 --> S7[STORE IMAGE DATA IN EXTERNAL RAM WITHIN MEMORY INTERFACE]
    S7 --> S8[OUTPUT IMAGE DATA TO ARITHMETIC SECTION FROM EXTERNAL RAM WITHIN MEMORY INTERFACE]
    S8 --> S9[ARITHMETIC SECTION PROCESSES IMAGE DATA ON THE BASIS OF PROGRAM ON INSTRUCTION RAM, AND OUTPUTS PROCESSED IMAGE DATA TO MEMORY INTERFACE]
    S9 --> S10[UNTIL END OF IMAGE PROCESS]
    S10 --> S11[MEMORY INTERFACE OUTPUTS PROCESSED IMAGE DATA FROM ARITHMETIC SECTION TO OUTPUT BUFFER]
    S11 --> S12[OUTPUT BUFFER OUTPUTS IMAGE DATA IN ACCORDANCE WITH CONNECTED PRINTER]
    S12 --> S13[UNTIL END OF IMAGE DATA READ]
    S13 --> END([END])

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FIG. 16

END

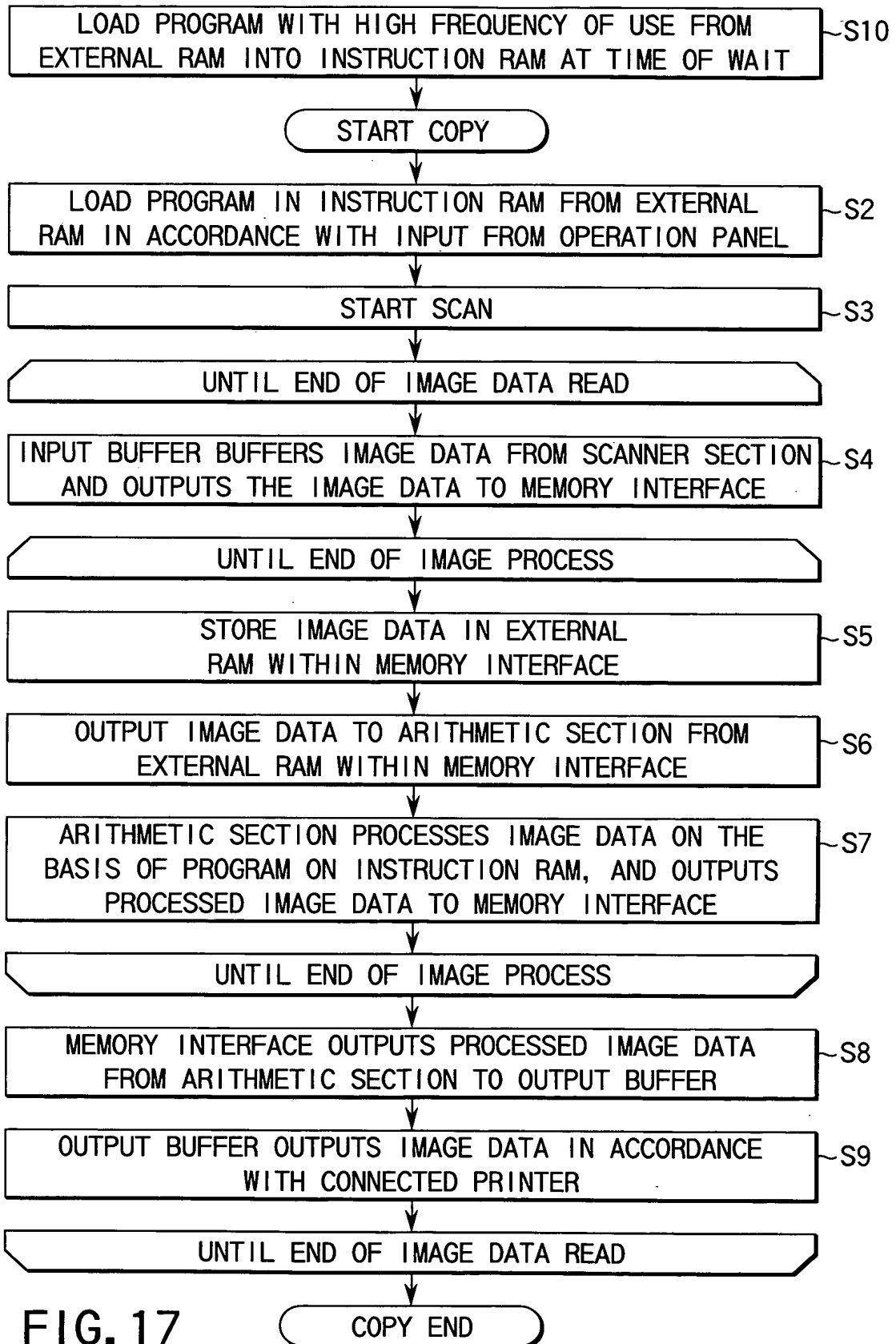


FIG. 17

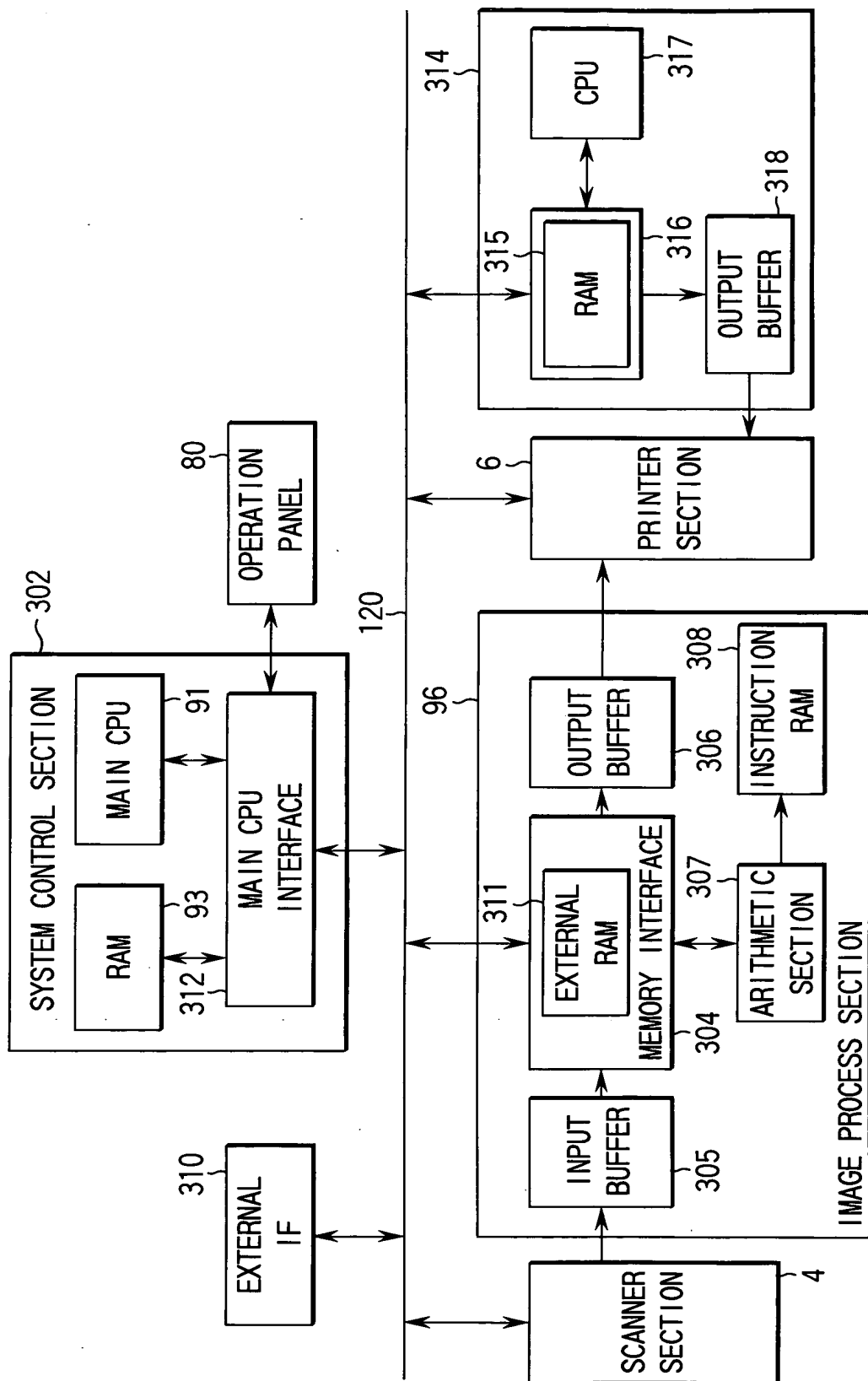


FIG.18

◆ 1-PIXEL MODULATION
■ 2-PIXEL MODULATION

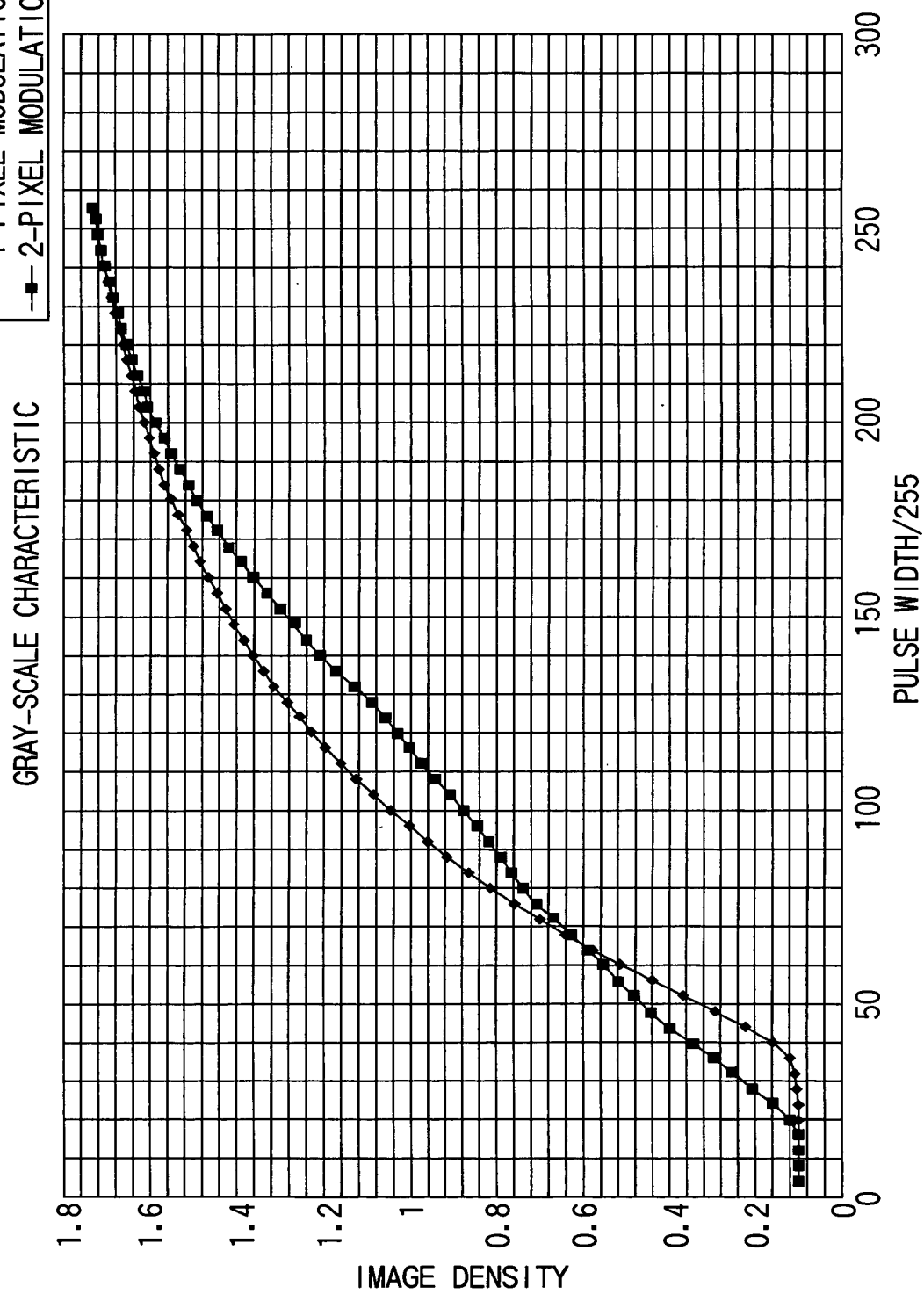


FIG. 19